## WHAT IS CLAIMED IS:

- A scintillator comprising a Group III nitride compound semiconductor.
- 5 2. A scintillator according to claim 1, wherein said
  Group III nitride compound semiconductor has a layer structure.
- 3. Ascintillatoraccording to claim 2, wherein a layer

  of said Group III nitride compound semiconductor is formed on the said to the said

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- buffer layer is formed between said substrate and said Group

  III nitride compound semiconductor layer.
- 5. A scintillator according to claim 2, wherein said

  ... Sugroup III nitride compound semiconductor layer has a hetero see the control of th
  - 20 6. A scintillation counter including a scintillator according to claim 1.
    - 7. A scintillation counter including a scintillator according to claim 2.

- 8. A scintillation counter including a scintillator according to claim 3.
  - 9. A scintillation counter including a scintillator
- 5 according to claim 4. Control of the factor of the second of the
  - 10. A scintillation counter including a scintillator according to claim 5.
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